

# Make Walkways Safe!



*Trade Names Are Registered in the U.S. Patent Office*

**AMERICAN ABRASIVE METALS CO.**  
50 CHURCH STREET

BOSTON  
BUFFALO

CHICAGO  
PITTSBURGH

NEW YORK, N. Y.  
PHILADELPHIA  
SAN FRANCISCO



# BRONZALUN

## *Anti-Slip Treads*

*Bronzalun is made the same as Feralun  
See page 2 for description*

The illustration at the left shows a  
Bronzalun Elevator Door Saddle,  
V-Fluted Surface

The illustration below shows  
a Bronzalun Tread, Hatched  
Surface

AMERICAN  
ABRASIVE  
METALS CO.

The illustration above shows a Bronzalun  
Door Saddle, V-Fluted Surface





*The Description, Uses, Forms, etc., of Feralun, as Outlined Below, Apply also to Alumalun, Bronzalun and Nicalun Except for the Metal Matrix*

### General Description

#### Composition —

Treads are made of a special iron in which is incorporated, at the time of casting, the hardest known electric furnace abrasive product. This abrasive grain is concentrated in and completely covers the wearing surface, assuring not only long wear but greatest non-slip qualities.

#### Durability —

Non-corrosive and weather-resistant even when placed in exposed positions. Feralun is standard in the New York subways where the traffic is the heaviest in the world and it requires years to destroy the efficiency of these treads. Under average traffic in a building, they will last the life of the structure. The abrasive grains are a protection against wear of the metal matrix in which they are cast. This assures extreme durability and freedom from maintenance.

**Safety**—The abrasive projects slightly above the surface and “bites” or provides a good frictional surface, so that slipping is impossible even when wet. There are no heel-catching or toe-tripping parallel grooves. Furthermore, the treads are fully protected on the nosing edge by the abrasive grains carried over the nosing. This eliminates the greatest danger of the edge becoming slippery or jagged through wear.

**Safety and Fireproof Approvals**—Feralun and sister products are universally approved by the State Industrial Boards of New York and other states, as well as insurance carriers in general and the Underwriters' Laboratories, Inc. Feralun also holds the Grand Prize of the American Museum of Safety.

### The Uses of Feralun

The Company has devoted 19 years of experience almost exclusively to the production and improvement of walkway surfaces. Over 50,000 installations include such representative hazardous locations as: Stair



The Cast Iron with the Abrasive Surface

treads and landings, floor plates, drain and trench covers, elevator and fire door thresholds, freight elevator landings, drainage gratings, entrance door saddles, coal-hole covers and frames, ramps, inclines, shipping platforms, etc.

### Feralun for Repair Service

Stair steps of concrete, wood or iron may be repaired and made safe with Feralun. The repairs are made easily and quickly at a cost far lower than complete stairway renewal. They are screwed to wood treads and expansion bolted to old concrete or stone stairs. See page 7, plate 12 for details.

### Designs in Which Feralun Is Made

All of the standard and many special designs in which Feralun is made are shown in detail on pages 5 to 7, plates 1 to 12.

Other special forms can also be made to specification. They are foundry cast to order, according to dimensions desired.

**Surfaces—Stair Treads**—Feralun is made in plain, hatch or fluted surfaces, all anti-slip. (See illustrations below.)

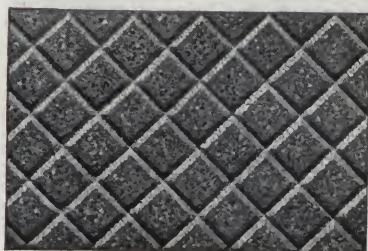
**Advantages of Structural Tread Over Concrete Stairs, Pan-filled Type**—No steel pan, no sub-tread. Less labor; all work done by iron contractors. Less time for erection. No waiting for concrete to dry. Stairs ready for immediate use to upper stories. Non-slip surface extends from nosing to riser. Avoids later repairs to worn concrete back of nosing. Lighter in weight.



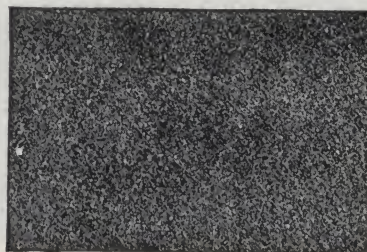
Detail of Repair

### Quality, the First Consideration

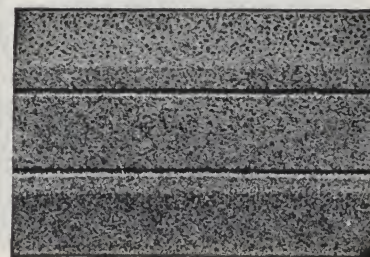
It has always been the aim of the company to make quality products, and in no case has quality been sacrificed for expense. Results have justified this policy as architects continue to specify them.



Hatch Surface



Fluted Surface in Saddle



Plain Surface

Three Surface Designs, Hatch, Plain or Fluted, Each Metal, All Anti-slip



## SPECIFICATIONS FOR ANTI-SLIP SAFETY TREADS

(1) **Scope**—Furnish and install where shown on accompanying drawings and herein specified Feralun Anti-Slip Treads for stairs, landings, floor plates, trench covers, elevator door thresholds, drainage gratings, coal hole covers and frames, entrance door saddles, ramps, shipping platforms, etc.

(2) **Manufacture**—All Anti-Slip Treads shall be of cast metal having an abrasive grain incorporated in the wearing surface at the time of casting and shall be manufactured by the AMERICAN ABRASIVE METALS Co., 50 Church Street, New York, N. Y.

(3) **Kind of Metal**—All Safety Treads shall be furnished as follows: (1) Feralun for all stair treads, floor plates, trench covers, passenger and freight elevator thresholds, and landings, (2) [Bronzalun, Alunalun, Nicalun], for all entrance door saddles, passenger elevator and swing door thresholds.

(4) **Anchorage**—All treads, nosings, thresholds, etc., shall be securely anchored with standard anchors, expansion bolts, screws or bolts in accordance with manufacturer's recommended standard practice.

(5) **Treads for Concrete**—All reinforced concrete steps, including nosing edges of platforms and landings, shall be equipped with Feralun [Style A, C or D] as made by the AMERICAN ABRASIVE METALS Co. Style A shall extend continuously along the step to within [3 or 4 in.] of stringers. (On pan-filled concrete steps, treads shall extend from string to string.) Style C and D shall extend from string to string and shall be [4, 4½, 5, 6, 7½ in.] wide. Treads shall be set flush with the cement surface and firmly secured with standard anchors supplied with treads by the manufacturer. Surface treads shall be kept free from all cement finish.

(6) **Floor Plates for Concrete Platforms and Landings**—All concrete platforms and landings shall be provided with Feralun Nosings and Strips, not less than 4 in. wide, extending to within 4 in. of stringers. Strips may be placed not over 4 in. apart. Surface of treads shall be set flush with the cement surface and shall be kept free from all cement finish.

(7) **Floor Plates for Concrete Ramps, Elevator Landings, etc.**—All concrete ramps, elevator landings, fire door saddles and runways, store entrance vestibules and revolving door vestibules shall be provided with Feralun Floor Plates as made by the AMERICAN ABRASIVE METALS Co.

(8) **Structural Treads without Risers**—All iron stairs in boiler room, pent house and unfinished portions of building where risers are not required shall be equipped with Feralun [Style R, R-K, O-O], as made by the AMERICAN ABRASIVE METALS Co. Treads shall be [5, 6, 7, 8 or 9 in.] wide. Style R and R-K shall be cast with lugs to be bolted to stringers. Style O-O shall be bolted to angle bracket furnished by others. (Where drainage is required specify that treads shall be perforated.)

(9) **Structural Treads with Risers**—All iron stairs, where steel risers are required, shall be equipped with Feralun Style O, S or K as made by the AMERICAN ABRASIVE METALS Co.

(10) **Platforms and Landings**—Platforms and landings shall be constructed with Feralun Plates with cast truss ribs and ground joints.

(11) **Structural Treads for Spiral Stairs**—All structural treads for spiral stairs shall be Feralun Standard Spiral Treads, made not less than ⅛ in. thick.

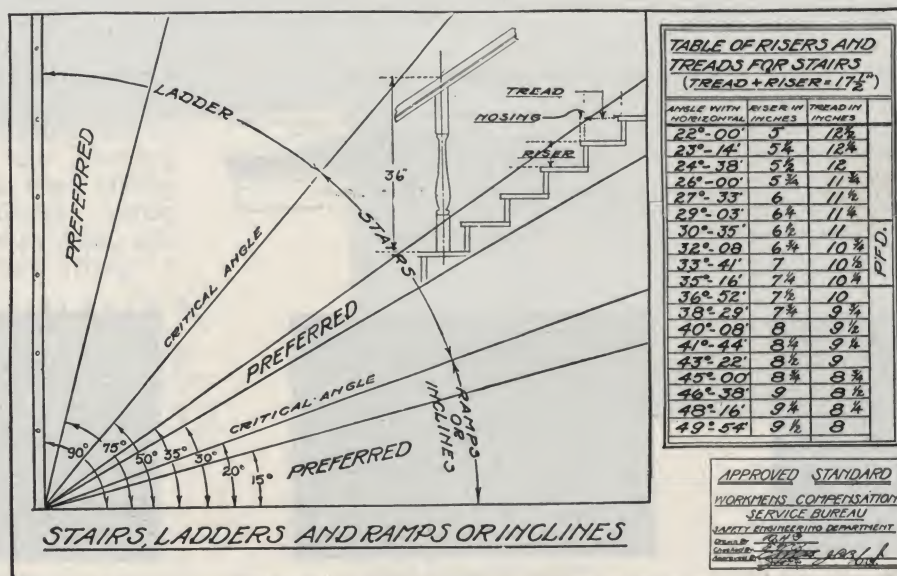
(12) **Door Saddles, Exterior and Interior**—All exterior entrance doors, interior doors, and fire doors shall be provided with [Feralun, Bronzalun or Alunalun] Door Saddles as manufactured by the AMERICAN ABRASIVE METALS Co. Saddles shall be Style [T, L, W or M]. Width shall be [4, 5, 6, 7, 8 or 9 in.] as indicated on drawings. Saddles shall be secured with standard anchors furnished by the manufacturer and attached by contractor when saddles are set in new concrete, or secured by expansion bolts furnished by others when saddles are set in old concrete, marble, stone, etc.

(13) **Elevator Door Sills**—All first floor passenger elevator doors shall be provided with [Bronzalun, Nicalun, Alunalun or Feralun] Elevator Door Sills. Basement and all upper floors shall be provided with [Feralun, Bronzalun or Alunalun] Elevator Door Sills [Styles V-I or V-II]. All shall have machine planed grooves and fluted surface as manufactured by the AMERICAN ABRASIVE METALS Co. All freight elevator doors shall be provided with Feralun Thresholds, Style W, hatch surface as manufactured by AMERICAN ABRASIVE METALS Co.

(14) **Miscellaneous Walkway Surfaces**—All boiler room floors, floors around machining, inclines, ramps, elevator floors, vestibules, freight corridors, trench covers, drainage gratings, coal hole covers, etc., shall be Feralun as manufactured by AMERICAN ABRASIVE METALS Co., as herein specified and shown on drawings.

(15) **Safety Coal Hole Covers and Frames**—Where indicated on drawings furnish Feralun Safety Coal Hole Covers and Frames, as manufactured by the AMERICAN ABRASIVE METALS Co. Covers and frames shall be set flush with sidewalk, hinges shall be concealed. When open, three sides and the top shall be enclosed. Size shall be [18, 20 or 24 in.].

(16) **Treads for Repair Work**—All worn treads of [wood, slate, stone, marble, concrete, terrazzo or iron] shall be equipped with Feralun Style A Treads [with 1-in. deep lip if required to cover worn nosing] as manufactured by AMERICAN ABRASIVE METALS Co. The treads shall extend continuously across the old treads to within [3 or 4 in.] of stringers and the distance between riser and Feralun Tread shall be not greater than 2½ in. Superimposed treads shall have back edge and both ends beveled. Recessed treads shall have back edge and both ends square. All worn surfaces of original treads shall be leveled up with magnesite cement. Treads shall be firmly secured with wood screws, bolts or expansion bolts in accordance with the recommended standard practice of the manufacturer.

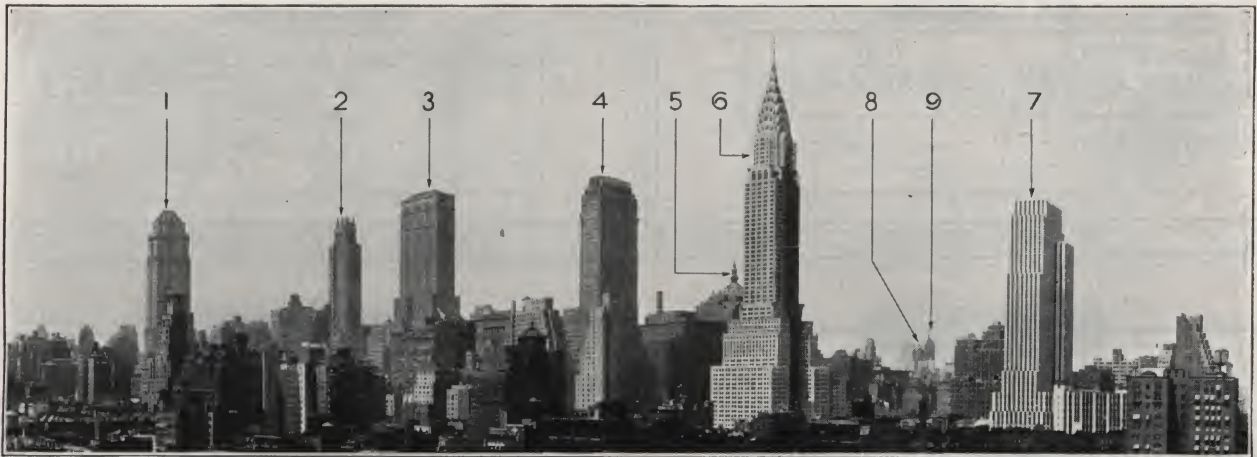


Correct Angles for Ladders, Stairs and Ramps





Composite Illustration of New York Telephone Co. Buildings Which Have Feralun Installations



Buildings in Mid-town New York Equipped with American Abrasive Anti-slip Walkway Surfaces ©Wm. Frange

- |                                                                                          |                                                                                                     |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| (1) 10 East 40th Street Building—48 stories; 700 ft. high—Ludlow and Peabody, Architects | (6) Chrysler Building—77 stories; 1046 ft. high—Wm. Van Alen, Architect                             |
| (2) Lefcourt Colonial Building—46 stories; 539 ft. high—Ely Jacques Kahn, Architect      | (7) Daily News Building—35 stories; 476 ft. high—Raymond M. Hood and John Meade Howells, Architects |
| (3) Lincoln Building—53 stories; 736 ft. high—J. E. R. Carpenter, Architect              | (8) Savoy-Plaza Hotel—33 stories; 467 ft. high—McKim, Mead & White, Architects                      |
| (4) Chanin Building—56 stories; 685 ft. high; Sloan & Robertson, Architects              | (9) Sherry-Netherlands Hotel—38 stories; 507 ft. high—Schultze & Weaver, Architects                 |
| (5) New York Central Building—34 stories; 565 ft. high—Warren and Wetmore, Architects    |                                                                                                     |



Newspaper Reel Room



Feralun Style O Treads and Platforms

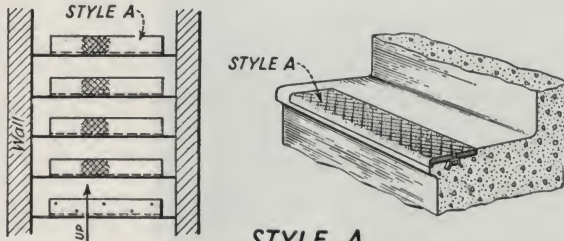


Feralun Style A in Terrazzo

Feralun in Use as Floor Plates and Stair Treads

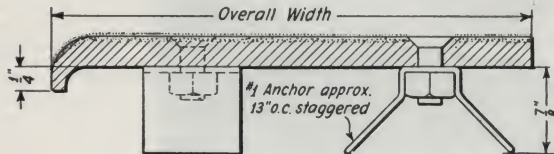


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STYLE A

treads are usually 6" or 8" shorter than distance between walls or stringers.



STYLE A

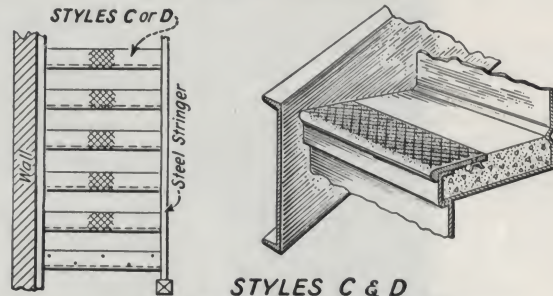
Recommended practice

| Thickness     | Length                                |
|---------------|---------------------------------------|
| Up to 4" wide | 1/4" Up to 5/16" thick not over 6'-0" |
| " " 9" "      | 5/16" Over 5/16" " " " 9'-0"          |
| " " 15" "     | 3/8" Over 9'-0" made in sections      |
| " " 20" "     | 7/16"                                 |
| " " 24" "     | 1/2"                                  |

Treads for Concrete

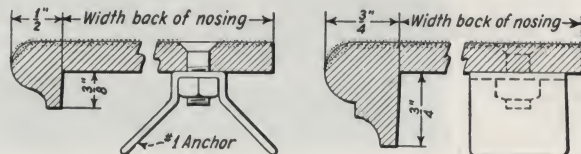
PLATE 1

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



STYLES C &amp; D

extend from stringer to stringer



STYLE C

STYLE D

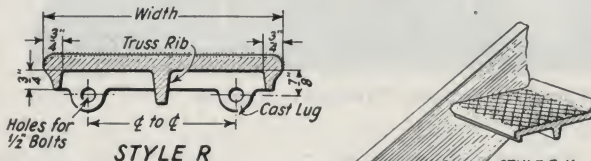
Recommended practice

| Thickness     | Length                                |
|---------------|---------------------------------------|
| Up to 4" wide | 1/4" Up to 5/16" thick not over 6'-0" |
| " " 9" "      | 5/16" Over 5/16" " " " 9'-0"          |
| " " 15" "     | 3/8" Over 9'-0" made in sections      |
| " " 20" "     | 7/16"                                 |
| " " 24" "     | 1/2"                                  |

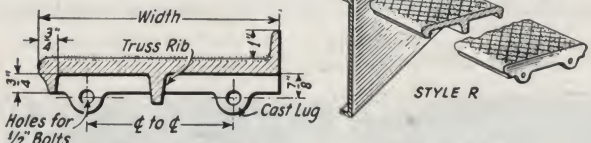
Treads for Pan-Filled Construction

PLATE 2

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



STYLE R



STYLE R-K

STYLES R & R-K with cast lugs for bolting treads direct to stringers.

Recommended practice  
STYLES R, R-K & O-O

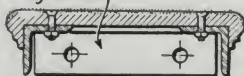
| Thickness                             |
|---------------------------------------|
| Not over 42" long... 7/16"            |
| " " 57" " " 1/2"                      |
| For extra heavy loads submit inquiry. |

Hole Spacing R & R-K

| Width  | 5" | 6" | 7"     | 8" | 9" | 10" |
|--------|----|----|--------|----|----|-----|
| ¢ to ¢ | 2" | 3" | 3 1/2" | 4" | 5" | 6"  |

STYLE O-O

carrier and end angles by others



STYLE O-O

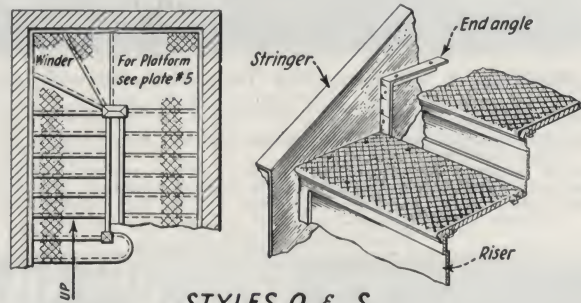
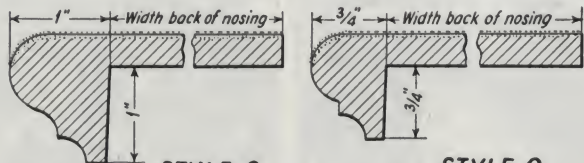
When supported by longitudinal carrier angles Style O-O may be 3/8"

Above styles also made with perforations for drainage. For details see plate #11 or submit inquiry.

Structural Treads (no risers required)

PLATE 3

ABRASIVE-METAL  
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ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS

STYLES O & S  
with bent risers

STYLE S

STYLE O

Recommended practice

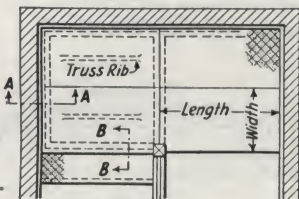
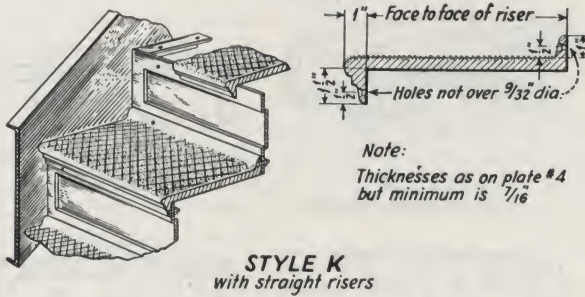
| Thickness     | Length                               |
|---------------|--------------------------------------|
| Up to 9" wide | 3/8" Up to 3/8" thick not over 6'-0" |
| " " 15" "     | 7/16" " " 1/2" " " " 9'-0"           |
| " " 24" "     | 1/2" Over 9'-0" made in sections.    |

Structural Treads (risers required)

PLATE 4

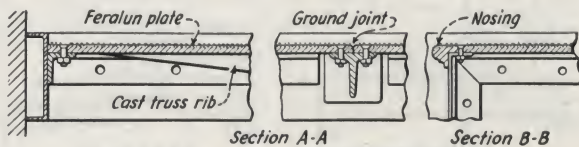


ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



Recommended practice

Up to 24" wide  $\frac{1}{2}$ " thick  
" " 42" "  $\frac{5}{8}$ " "  
Plates not to exceed 42"x54"  
For extra heavy loads  
submit inquiry.

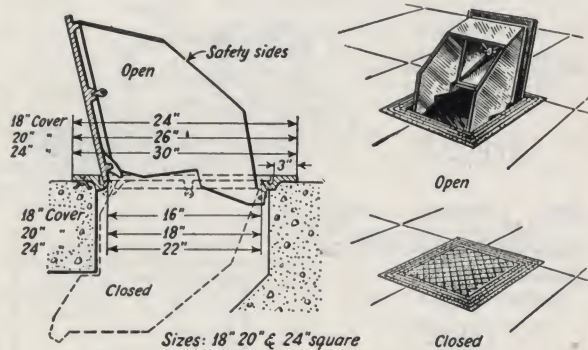


**PLATFORMS**

Structural Treads (risers required) - Platforms

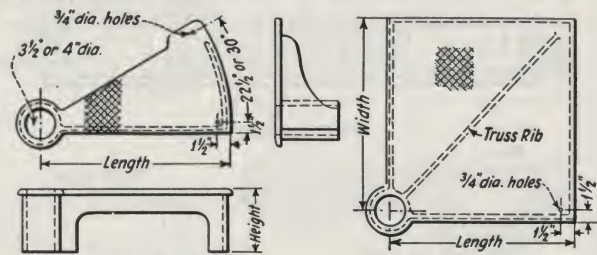
PLATE 5

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



**SAFETY COAL HOLE COVER**

Also round covers in 18", 20" & 24" diameter.



**SPIRAL TREAD**

**SPIRAL PLATFORM**

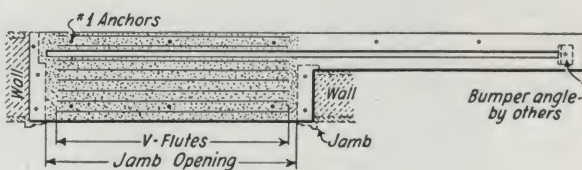
Length 22" to 48"

Minimum height  $8\frac{1}{4}$ " to allow sufficient headroom.

Coal Hole Covers - Spiral Treads

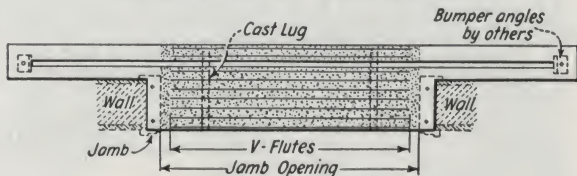
PLATE 6

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



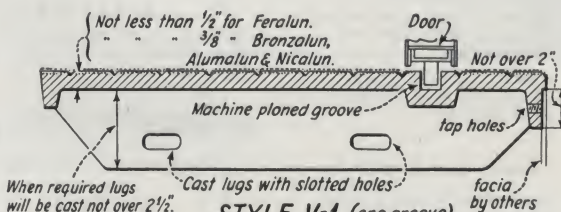
**STYLE V-1**

for single speed type elevator enclosure



**STYLE V-1**

for biparting type elevator enclosure



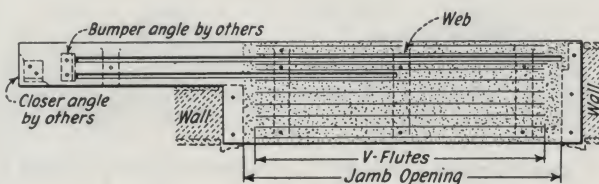
**STYLE V-1 (one groove)**

Sills over 9'-6" made in sections

Elevator Door Sills

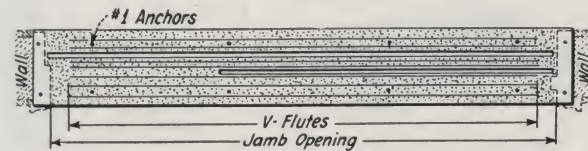
PLATE 7

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



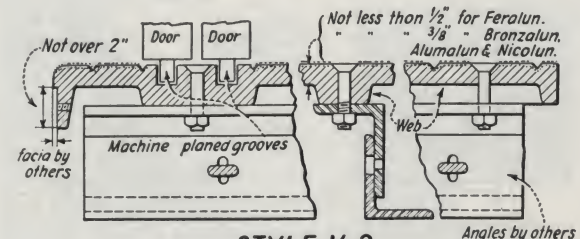
**STYLE V-2**

for two speed type elevator enclosures



**STYLE V-2**

for two speed and swing type elevator enclosures



**STYLE V-2**

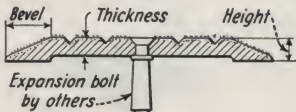
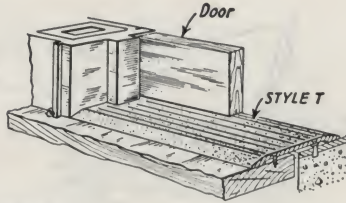
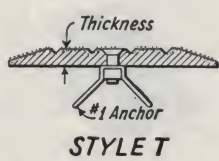
Sills over 9'-6" made in sections.

Elevator Door Sills

PLATE 8

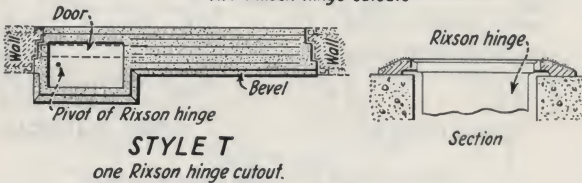
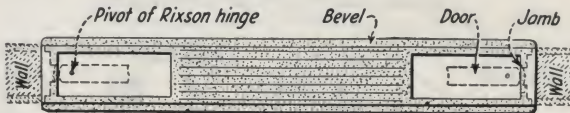


ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



Recommended practice

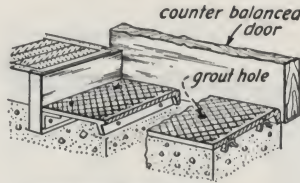
|                 |                       |
|-----------------|-----------------------|
| Up to 12" wide  | $\frac{3}{8}$ " thick |
| " 15" "         | $\frac{7}{16}$ " "    |
| Over 9'-0" made | in sections           |



Door Saddles

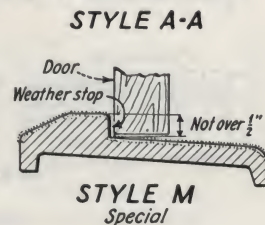
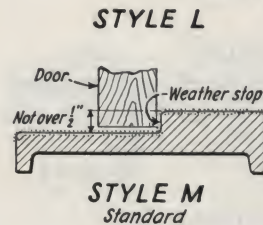
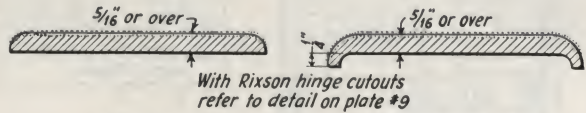
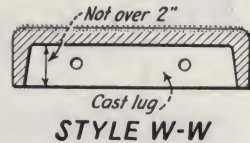
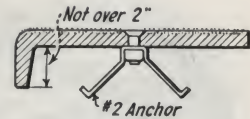
PLATE 9

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



Recommended practice

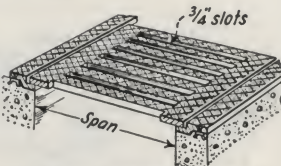
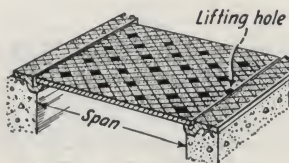
|                                                         |
|---------------------------------------------------------|
| $\frac{1}{2}$ " thick for Feralun                       |
| $\frac{3}{8}$ " " " { Bronzalun,<br>Alumalun & Nicalun. |
| Over 9'-0" made in sections                             |



Door Saddles

PLATE 10

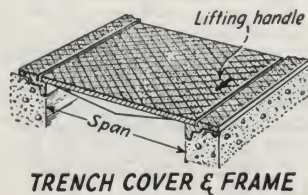
ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS



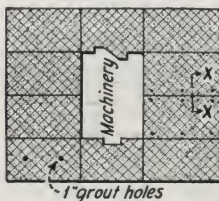
Recommended practice

|                |            |
|----------------|------------|
| Span up to 24" | 1/2" thick |
| " " " 42"      | 5/8" "     |
| " " " 54"      | 3/4" "     |

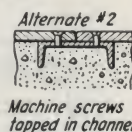
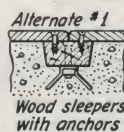
Plates not to exceed 42"x54"  
For extra heavy loads  
submit inquiry.



TRENCH COVER & FRAME



Section X-X



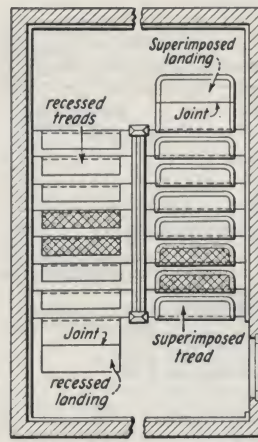
Recommended practice

|                                     |
|-------------------------------------|
| $\frac{1}{2}$ " thick up to 24"x36" |
| $\frac{5}{8}$ " " " 42"x48"         |
| $\frac{3}{4}$ " " " 42"x54"         |

Floor Plates - Trench Covers

PLATE 11

ABRASIVE-METAL  
FERALUN BRONZALUN  
ALUMALUN NICALUN  
ANTI-SLIP PRODUCTS

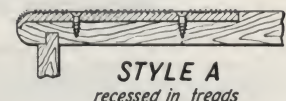
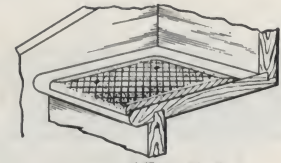


Notes:-

Plan No. 1 shows superimposed treads with back edge and ends bevelled.  
Plan No. 2 shows recessed treads with back edge and ends squared.

Recommended Practice:-

Treads should extend to within  $2\frac{1}{2}$ " of riser and stringers.



Treads for Repair Work

PLATE 12



## FERALUN IN SCHOOLS

Feralun is universally specified by supervising architects for school building installations. During the year 1929, 387 schools in 36 states were equipped with Feralun, while over a 5-year period nearly 2000 schools have been so equipped. This anti-slip product has proved its value in schools on account of its safety and durability.

Stairs in schools are in more constant use than in most public buildings. When made of some materials, these stairs will wear down, chip on the nosing edge and become smoother and more slippery the longer they are used. Feralun is proof against all these defects and when once installed will last the life of the building and will be slip-proof.

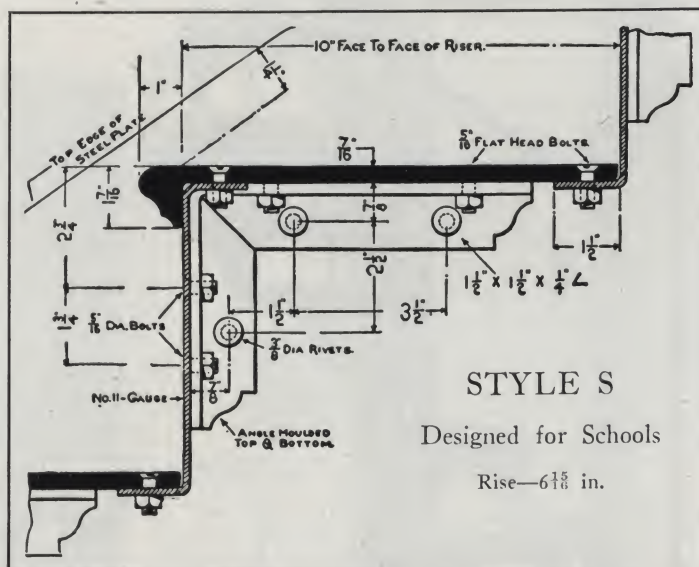
Feralun Anti-slip Treads were installed in the Washington Irving High School in 1913. To date no accident has been reported and no repairs have been necessary. The qualities claimed for Feralun are easily proven by such an extended use as that in this school. Inspection of the condition of these treads is invited.

**Treads Approved by New York Board of Education**—The Style "S" Feralun Anti-Slip Tread illustrated below was especially designed for and approved by the architects of the New York Board of Education. In a single year over 20,000 were installed in new school buildings in the City of New York alone.

This style has proven highly satisfactory and is gaining great favor in many localities other than New York.

The detail and installation views below show the simplicity, sturdiness and neat appearance of this type of construction. No sub-tread is required as the Feralun Tread is fastened both at the front and back to risers and angles.

**Repair of Worn Steps**—Worn steps of any material and quickly and easily repaired with Feralun Treads. Style "A," shown on page 7, plate 12 in several types, is adaptable to repair conditions of any kind. Worn steps repaired with Feralun Treads have the same efficiency as a new installation.



Feralun Anti-slip Treads in Use on These Steel Stairs



View Looking Up of Underside, Showing Simple Construction and Neat Appearance

Typical Views of Feralun School Stair Installations According to Detail Shown Above



## FERALUN ANTI-SLIP SPIRAL STAIRS

**Feralun** Treads and Platforms for spiral staircases are furnished by the AMERICAN ABRASIVE METALS CO. They are easily assembled on the job, are inexpensive and have the highest factor of safety. They are neat in appearance and make an ideal installation in schools, churches, office buildings, banks, warehouses, etc., where the saving of floor space is essential.

**Feralun** Spiral Treads and Platforms are cast complete in one piece with collar and flange or riser, according to architects' or contractors' details. The thickness of the tread is usually  $\frac{7}{16}$  to  $\frac{3}{4}$  in. according to requirements. The hole in the collar is made for a  $3\frac{1}{2}$  or 4-in. O. D. pipe. The length



**Spiral Staircase with Feralun Treads**  
For details, see page 6, plate 6

of treads vary from 22 to 48 in.

The riser of each tread rests on the tread of the step below; from 12 to 16 treads to the circle. Riser heights and the number of treads to the circle are dependent upon the height between floors.

In order that sufficient headroom be provided under the top platform, risers should have a minimum height of 8 in.

Hand rail spindles and center pipe furnished by others.

#### Architects'

#### Specification

**Spiral Stair Treads** — Furnish where shown on plans, Feralun Safety Spiral Stair Treads as manufactured by the AMERICAN ABRASIVE METALS CO., 50 Church Street, New York, N. Y.

## DESCRIPTION OF MATRIX METALS

#### Feralun

##### Special Iron Base

Is particularly desirable for heavy duty where performance is of first importance. Used as standard on New York subway station stairs.

#### Alumalun

##### Aluminum Silicon Alloy Base

Silvery color, for marble stairs, door sills, deck plates, ladder treads, etc. Was developed for U. S. Navy and is used on battleships, destroyers and air-plane carriers, is light in weight, anti-slip and not affected by salt water.

#### Bronzalun

##### 85% Copper Bronze Base

Has the bronze coloring much used in modern architecture. Compares in cost with cast brass, is durable and anti-slip, for stair treads, elevator door sills, etc.

#### Nicalun

##### Nickel Copper Alloy Base

A new product, has the bright attractive color desirable for highest types of architecture, will harmonize with white metal or stainless steel. For use as elevator door sills, swing door saddles, stair treads, etc.



# BRONZALUN OR NICALUN

*Anti-Slip Treads*



Nicalun—Style V—Two Speed Door



Bronzalun—Style T—With Rixson Hinge Cut Out

Bronzalun and Nicalun are extensively used for treads, elevator door sills and saddles where appearance is a factor to be considered. They are made in the same manner and of the same grade of materials as Feralun except for the matrix. They have the same durability, safety, uses and quality as Feralun, and are made in the same forms and with the same approvals. Both have the same electric furnace product embedded in the surface and nosing to produce the same anti-slip, non-wearing quality of Feralun.

Products made from these materials are manufactured to specification. Two suggested styles are given above to show usual forms which have been produced to fulfill certain requirements. These and many others are made and have proven highly satisfactory. (See detail sheets, pages 5, 6 and 7.)

Bronzalun is used generally where there is a desire for such a shade to be in keeping with the general decorative scheme. It has been found very satisfactory where trim, fixtures or the general decorative scheme is in black, bronze, brass or gold.

Nicalun provides architectural beauty as well as anti-slip effectiveness and durability. It has a bright appearance and resists corrosion. It is particularly desirable for use with marble trim and in highly modern ornamental locations where a silver-white color harmonizes.



# ALUMALUN

## *Anti-Slip Treads*

+ +  
STAIR TREADS  
ELEVATOR DOOR SILLS  
SWING DOOR SADDLES  
+ +



+ +  
CAR STEPS  
(Railway and Bus)  
LADDER TREADS  
+ +



ALUMALUN  
**AMERICAN**  
50 CHURCH STREET  
BOSTON  
BUFFALO

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Robert Vail Cole Jr, AIA  
1962 - 2011



# ALUMALUN

## *Anti-Slip Treads*

+ +  
STAIR TREADS  
ELEVATOR DOOR SILLS  
SWING DOOR SADDLES

+ +  
CAR STEPS  
(Railway and Bus)  
LADDER TREADS  
+ +



ALUMALUN TREADS ON MARBLE STEPS

**AMERICAN ABRASIVE METALS CO.**  
50 CHURCH STREET

NEW YORK, N. Y.

BOSTON  
BUFFALO

CHICAGO  
PITTSBURGH

PHILADELPHIA  
SAN FRANCISCO